

## INTERNATIONAL SEARCH REPORT

 Int. Application No  
 PCT/DK2004/000599

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K38/26 G01N33/74 G01N33/72 A61P3/10

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, EMBASE, BIOSIS

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 95/31214 A (LONDON HEALTH ASS ; DUPRE JOHN (CA)) 23 November 1995 (1995-11-23) cited in the application the whole document	1-19, 27-29, 54-58
X	WO 00/42026 A (CORNELIS DE JONG JOHANNES ; KODRA JANOS TIBOR (DK); PETTERSON INGRID V) 20 July 2000 (2000-07-20) page 43, lines 5-7; claims 42-53,60,61	1-17, 54-58
X	WO 03/002136 A (NOVO NORDISK AS) 9 January 2003 (2003-01-09)  page 10, last paragraph; claim 25	1-23, 27-29, 54-58
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*A\* document member of the same patent family

Date of the actual completion of the international search

3 March 2005

Date of mailing of the international search report

30. 03. 2005

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## INTERNATIONAL SEARCH REPORT

 International Application No  
 PCT/DK2004/000599

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 98/08871 A (NOVONORDISK AS ; KNUDSEN LISELOTTE BJERRE (DK); NIELSEN PER FRANKLIN () 5 March 1998 (1998-03-05) cited in the application page 5, lines 3-12; example 37	1-23, 27-29, 54-58
X	US 5 424 286 A (ENG JOHN) 13 June 1995 (1995-06-13) cited in the application column 2, lines 37-60	1-17, 24-29, 54-58
P,X	WO 2004/050115 A (NOVO NORDISK AS) 17 June 2004 (2004-06-17)  claims 1,2	1-17, 24-29, 54-58
X	EP 0 201 187 A (NOVO INDUSTRI A/S; NOVO NORDISK A/S) 12 November 1986 (1986-11-12) page 2, lines 9-31 page 5, lines 15-18	47-53
X	OLSEN BIRTHE SUSSANE ET AL: "A 6-year nationwide cohort study of glycaemic control in young people with Type 1 diabetes: Risk markers for the development of retinopathy, nephropathy, and neuropathy" JOURNAL OF DIABETES AND ITS COMPLICATIONS, vol. 14, no. 6, November 2000 (2000-11), pages 295-300, XP002319816 ISSN: 1056-8727 the whole document	47-53
X	DANNE T ET AL: "Persistent differences among centers over 3 years in glycemic control and hypoglycemia in a study of 3,805 children and adolescents with type 1 diabetes from the Hvidovre Study Group." DIABETES CARE. AUG 2001, vol. 24, no. 8, August 2001 (2001-08), pages 1342-1347, XP002319817 ISSN: 0149-5992 the whole document	47-53
X	HOEY H ET AL: "Good metabolic control is associated with better quality of life in 2,101 adolescents with type 1 diabetes." DIABETES CARE. NOV 2001, vol. 24, no. 11, November 2001 (2001-11), pages 1923-1928, XP002319818 ISSN: 0149-5992 the whole document	47-53

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## INTERNATIONAL SEARCH REPORT

In ☐ International Application No  
PCT/DK2004/000599

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	NORDLY S ET AL: "Quality of diabetes management in children and adolescents in Denmark." DIABETIC MEDICINE : A JOURNAL OF THE BRITISH DIABETIC ASSOCIATION. JUL 2003, vol. 20, no. 7, July 2003 (2003-07), pages 568-574, XP002319819 ISSN: 0742-3071 the whole document	47-53
A	VILSBOELL T ET AL: "EVALUATION OF BETA-CELL SECRETORY CAPACITY USING GLUCAGON-LIKE PEPTIDE 1" DIABETES CARE, AMERICAN DIABETES ASSOCIATION, ALEXANDRIA, VA, US, vol. 23, no. 6, June 2000 (2000-06), pages 807-812, XP000984497 ISSN: 0149-5992 the whole document	30-46

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# INTERNATIONAL SEARCH REPORT

national application No.  
PCT/DK2004/000599

## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
  
Although claims 1-29 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

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**FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210**

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-29, 54-58

Use of GLP-1 agonists in the treatment of type 1 diabetes  
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2. claims: 30-46

Diagnosis of type 1 diabetes by analysing the concentration  
of endogenous GLP-1(7-37) and GLP-1(7-36) amide  
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3. claims: 47-53

Diagnosis of type 1 diabetes by analysing the level of HbA1c  
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## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/DK2004/000599

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9531214	A	23-11-1995	AT 194918 T	15-08-2000
			AU 711611 B2	14-10-1999
			AU 2404495 A	05-12-1995
			CA 2190112 A1	12-05-1995
			WO 9531214 A1	23-11-1995
			DE 69518154 D1	31-08-2000
			DE 69518154 T2	14-12-2000
			DK 762890 T3	13-11-2000
			EP 0762890 A1	19-03-1997
			ES 2150566 T3	01-12-2000
			GR 3034631 T3	31-01-2001
			JP 10500114 T	06-01-1998
			PT 762890 T	30-11-2000
			US 2002160008 A1	31-10-2002
			US 2002119146 A1	29-08-2002
WO 0042026	A	20-07-2000	AU 3033500 A	01-08-2000
			WO 0042026 A1	20-07-2000
			EP 1147094 A1	24-10-2001
			JP 2002534512 T	15-10-2002
WO 03002136	A	09-01-2003	WO 03002136 A2	09-01-2003
			EP 1412384 A2	28-04-2004
			JP 2004535442 T	25-11-2004
			US 2003119734 A1	26-06-2003
WO 9808871	A	05-03-1998	AU 732957 B2	03-05-2001
			AU 3847897 A	19-03-1998
			AU 4112497 A	19-03-1998
			BR 9711437 A	18-01-2000
			CA 2264243 A1	05-03-1998
			CA 2468374 A1	05-03-1998
			CN 1232470 A	20-10-1999
			CZ 9900629 A3	14-07-1999
			WO 9808871 A1	05-03-1998
			WO 9808872 A1	05-03-1998
			EP 0944648 A1	29-09-1999
			EP 0929576 A1	21-07-1999
			HU 9903714 A2	28-03-2000
			JP 2000500505 T	18-01-2000
			JP 3149958 B2	26-03-2001
			JP 2000517308 T	26-12-2000
			JP 2001011095 A	16-01-2001
			KR 2000035964 A	26-06-2000
			MA 24129 A1	01-10-1997
			NO 990950 A	28-04-1999
			PL 331896 A1	16-08-1999
			RU 2214419 C2	20-10-2003
			US 6268343 B1	31-07-2001
			US 2003199672 A1	23-10-2003
			US 2001011071 A1	02-08-2001
			US 2004127418 A1	01-07-2004
			US 2002025933 A1	28-02-2002
			ZA 9707791 A	02-03-1998
			ZA 9707828 A	02-03-1998
US 5424286	A	13-06-1995	NONE	

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INTERNATIONAL SEARCH REPORT  
Information on patent family members

International Application No  
PCT/DK2004/000599

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 2004050115	A	17-06-2004	WO 2004050115 A2	17-06-2004
			US 2004180824 A1	16-09-2004
EP 0201187	A	12-11-1986	AT 72052 T	15-02-1992
			AU 584688 B2	01-06-1989
			AU 5532186 A	02-10-1986
			DE 3683532 D1	05-03-1992
			DK 129986 A ,B,	30-09-1986
			EP 0201187 A1	12-11-1986
			ES 8800351 A1	01-01-1988
			FI 861358 A ,B	30-09-1986
			GR 860833 A1	29-07-1986
			JP 7020437 B	08-03-1995
			JP 61280571 A	11-12-1986
			PT 82296 A ,B	01-04-1986
			US 5206144 A	27-04-1993

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